

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	14	(revis\$3 or alter\$3 or chang\$3) same (chemical) same (electropla\$3) same bath	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/03/05 15:39
2	BRS	L5	27	(revis\$3 or alter\$3 or chang\$3) with chemical with electroplat\$3	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/03/05 16:00
3	BRS	L6	234	(revis\$3 or chang\$3 or alter\$3 or control\$3 or modif\$3 or var\$3 or adjust\$3 or revolutioni\$3) with chemical with (electroplat\$3 or (anode adj3 cathode))	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/03/05 16:05
4	BRS	L7	30	6 same thickness	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/03/05 16:32
5	BRS	L9	1	(chemical adj concentration) same (electroplating adj bath)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2003/03/05 16:49

US-PAT-NO: 5006420

DOCUMENT-IDENTIFIER: US 5006420 A

TITLE: Electroplated steel sheet having a plurality of coatings, excellent in workability, corrosion resistance and water-resistant paint adhesivity

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The contents of iron, chromium and zinc in the iron-chromium-zinc alloy coating as the lower layer and the another iron-chromium-zinc alloy coating as the intermediate layer can be adjusted by altering the contents of zinc sulfate, ferrous sulfate and chromium sulfate in the electroplating bath, the electric current density of plating, the pH-value of the plating bath and/or the flow velocity of the plating bath. More specifically, increase in the contents of ferrous sulfate and chromium sulfate in the electroplating bath, increase in the electric current density of plating, increase in the pH-value of the plating bath, or decrease in the flow velocity of the plating bath causes increase in the contents of iron and chromium in the alloy coating. Therefore, it is possible to form an iron-chromium-zinc alloy coating as the lower layer and another iron-chromium-zinc alloy coating as the intermediate layer respectively having prescribed contents of iron and chromium by altering the chemical composition of the electroplating baths and/or the plating conditions.

L Number	Hits	Search Text	DB	Time stamp
1	26695	electroplating electroplate electroplated electroplates	USPAT; US-PGPUB	2003/03/05 18:38
2	563213	concentration	USPAT; US-PGPUB	2003/03/05 18:38
3	1015525	rate	USPAT; US-PGPUB	2003/03/05 18:38
4	45	(electroplating electroplate electroplated electroplates) with concentration with rate	USPAT; US-PGPUB	2003/03/05 18:38